Westates® AquaPAC S Series powdered reactivated carbon

For Industrial, Remedial Water and Flue Gas Treatment

Description

AquaPAC S Series powdered reactivated carbons are produced through thermal reactivation of approved grades of spent carbon at one of our state-of-the-art reactivation facilities followed by grinding to specific particle sizes required for powdered carbon applications. Through careful control of the residence time in the reactivation furnace, reactivation temperature, and reactivation gas composition, adsorbed contaminants on the spent carbon are removed and destroyed, and the carbon's internal pore structure is maintained as close to virgin condition as possible. AquaPAC S Series reactivated carbons are pooled from a variety of sources, ensuring consistent product properties. The resulting powdered carbon serves as an excellent economic alternative to virgin powdered carbon for the removal of a broad range of organic contaminants from wastewater, process water, and groundwater streams. Also, finer grind sizes are available for flue gas treatment applications.

Applications

Cost effective AquaPAC S Series reactivated carbons have been demonstrated to provide excellent performance in a variety of liquid phase treatment applications, including the following:

- Removal of organic contaminants
- Pesticide removal
- Groundwater remediation
- Wastewater treatment
- Industrial process water treatment
- Flue Gas treatment - mercury / dioxin removal

Quality Control

Each lot of reactivated carbon is identified by lot number, sampled, and analyzed in accordance with Siemens Water Technologies' QA/QC program. Siemens' laboratories are fully equipped to provide complete quality control analysis using ASTM standard test methods in order to assure the consistent quality of all Westates® carbons.

Our technical staff offers hands-on guidance in selecting the most appropriate system, operating conditions and carbon to meet your needs. For more information contact your nearest Siemens representative.

Features and Benefits:

- Reactivated carbons serve as an economical alternative to virgin carbon in many applications
- A detailed quality assurance program guarantees consistent quality from lot to lot and shipment to shipment
- Pooled reactivated carbons provide consistent properties and performance

Typical Properties	
Parameter	**AquaPAC S**
Carbon Type	Reactivated Coconut/Coal
Mesh Size, U.S. Sieve	70% -325 mesh or 95% -325 mesh
Iodine No., mg I_2/g	800
Apparent Density, g/cc	0.45 - 0.54
Moisture as Packed, Wt. %	8

Safety Note: Under certain conditions, some compounds may oxidize, decompose or polymerize in the presence of activated carbon causing a carbon bed temperature rise that is sufficient to cause ignition. Particular care must be exercised when compounds that have a peroxide-forming tendency are being adsorbed. In addition the adsorption of VOCs will lead to the generation of heat within a carbon bed. These heats of reaction and adsorption need to be properly dissipated in order to fully assure the safe operation of the bed.

Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.

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